

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/039,117	LEWIS ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Khanh Tran	2631	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to The Amendment filed on 07/18/2005.
2. ☒ The allowed claim(s) is/are 4-6, 11-13, 15-16, 20-22 and 27-29, which are renumbered as 1-14.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

1. The Amendment filed on 07/18/2005 has been entered. Claims 4-6, 11-13, 15-16, 20-22 and 27-29 are pending in this Office action.

2. Claims are renumbered as shown below:

***Claims 4-6 are renumbered as claims 1-3;***

***Claims 11-13 are renumbered as claims 4-6;***

***Claims 15-16 are renumbered as claims 7-8;***

***Claims 20-22 are renumbered as claims 9-11 and;***

***Claims 27-29 are renumbered as claims 12-14.***

### ***Response to Arguments***

2. Applicant's arguments, see page 8 of the Remarks, filed on 07/18/2005, with respect to claims 5-6, 15-16, 21-22 and 28-29 have been fully considered and are persuasive. The rejection of claims 5-6, 15-16, 21-22 and 28-29 has been withdrawn. Claims 4, 11, 20 and 27 containing allowable subject matter are rewritten in independent form, including all of the limitations of the base claim and any intervening claims.

### ***Reasons for Allowance***

The following is an examiner's statement of reasons for allowance:

3. Claims 4-6 are allowed.

Regarding claim 4, claim 4 is allowed after claim is rewritten in independent form, including all of the limitations of the base claim and any intervening claims. Claim 4 discloses allowable limitations "wherein filtering said cross-correlation signal comprises: cross-correlating said cross-correlation signal with M-1 "0"s and 1 "1" N times wherein M is a number of samples in a symbol within said preamble and N is greater than or equal to 1". It is noted that the closest prior art, Norell et al. US 6,874,096 B1, discloses a similar method for detecting packet (frame) arrival time for packets (frame). However, Norell et al., either singularly or in combination, fails to anticipate or render the above underlined limitations obvious.

4. Claims 11-13 are allowed.

Regarding claim 11, claim 11 is allowed after claim is rewritten in independent form, including all of the limitations of the base claim and any intervening claims. Claim 11 discloses allowable limitations "wherein said filter comprises: a cross-correlation block that cross-correlates said cross-correlation signal with M-1 "0"s and 1 "1" N times wherein M is a number of samples in a symbol within said preamble and N is greater than or equal to 1". It is noted that the closest prior art, Norell et al. US 6,874,096 B1, discloses a similar method for detecting packet (frame) arrival time for packets (frame). However, Norell et al., either singularly or in combination, fails to anticipate or render the above underlined limitations obvious.

5. Claim 15 is allowed.

Regarding claim 15, claim 15 is allowed after Applicants amended claim to include means for performing limitations of claims 2-3 and allowable limitations of claim 4 "wherein said means for filtering said cross-correlation signal comprises: means for cross-correlating said cross-correlation signal with M-1 "0"s and 1 "1" N times wherein M is a number of samples in a symbol within said preamble and N is greater than or equal to 1". It is noted that the closest prior art, Norell et al. US 6,874,096 B1, discloses a similar method for detecting packet (frame) arrival time for packets (frame). However, Norell et al., either singularly or in combination, fails to anticipate or render the above underlined limitations obvious.

6. Claim 16 is allowed.

Regarding claim 16, claim 16 is allowed after Applicants amended claim to include means for performing limitations of claims 2-3 and allowable limitations of claim 4 "wherein said means for filtering said cross-correlation signal comprises: means for cross-correlating said cross-correlation signal with M-1 "0"s and 1 "1" N times wherein M is a number of samples in a symbol within said preamble and N is greater than or equal to 1". It is noted that the closest prior art, Norell et al. US 6,874,096 B1, discloses a similar method for detecting packet (frame) arrival time for packets (frame). However, Norell et al., either singularly or in combination, fails to anticipate or render the above underlined limitations obvious.

7. Claims 20-22 are allowed.

Regarding claim 20, claim 20 is allowed after claim is rewritten in independent form, including all of the limitations of the base claim and any intervening claims. Claim 20 discloses allowable limitations "wherein said code that filters said cross-correlation signal comprises: code that cross-correlates said cross-correlation signal with M-1 "0"s and 1 "1" N times wherein M is a number of samples in a symbol within said preamble and N is greater than or equal to 1". It is noted that the closest prior art, Norell et al. US 6,874,096 B1, discloses a similar method for detecting packet (frame) arrival time for packets (frame). However, Norell et al., either singularly or in combination, fails to anticipate or render the above underlined limitations obvious.

8. Claims 27-29 are allowed.

Regarding claim 27, claim 27 is allowed after claim is rewritten in independent form, including all of the limitations of the base claim and any intervening claims. Claim 27 discloses allowable limitations "wherein said code that filters said cross-correlation signal comprises: code that cross-correlates said cross-correlation signal with M-1 "0"s and 1 "1" N times wherein M is a number of samples in a symbol within said preamble and N is greater than or equal to 1". It is noted that the closest prior art, Norell et al. US 6,874,096 B1, discloses a similar method for detecting packet (frame) arrival time for packets (frame). However, Norell et al., either singularly or in combination, fails to anticipate or render the above underlined limitations obvious.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh Tran whose telephone number is 571-272-3007. The examiner can normally be reached on Monday - Friday from 08:00 AM - 05:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Khánh công Tran

09/30/2005

Examiner KHANH TRAN